

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

**EP 1 177 933 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
24.04.2002 Bulletin 2002/17

(51) Int Cl.7: **B60K 41/14, F16H 37/08**

(43) Date of publication A2:  
06.02.2002 Bulletin 2002/06

(21) Application number: **01118359.7**(22) Date of filing: **27.07.2001**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE TR**  
Designated Extension States:  
**AL LT LV MK RO SI**

(72) Inventors:  
• **Toukura, Nobusuke**  
**Yokosuka-shi, Kanagawa (JP)**  
• **Yasuoka, Masayuki**  
**Yokohama-shi, Kanagawa (JP)**

(30) Priority: **31.07.2000 JP 2000230515**

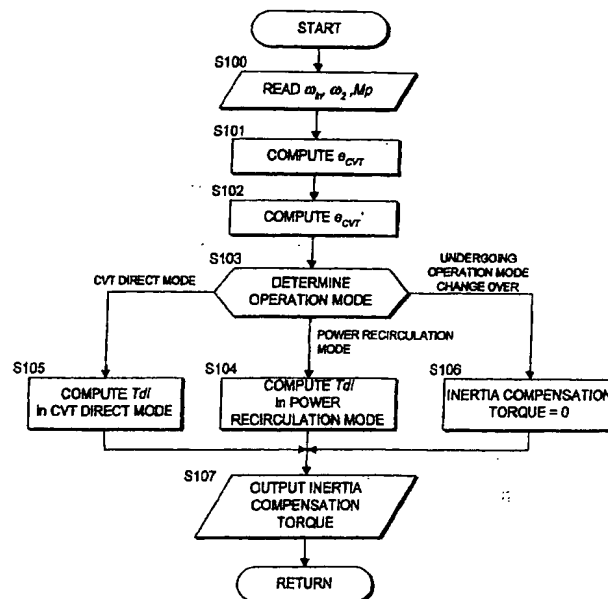
(74) Representative: **Grünecker, Kinkeldey,  
Stockmair & Schwanhäusser Anwaltssozietät  
Maximilianstrasse 58  
80538 München (DE)**

(71) Applicant: **Nissan Motor Co., Ltd.  
Yokohama-shi, Kanagawa (JP)**

(54) **Inertia torque compensation control for a vehicle fitted with an infinitely variable transmission**

(57) An IVT controller (14) determines whether the operation mode of an infinitely variable transmission (IVT) 10 is a power recirculation mode or a CVT direct mode, and selects an inertia torque computing equation corresponding to the operation mode. The inertia torque

accompanying a speed change of the IVT 10 is computed using the computing equation. An engine controller (15) adjusts the opening of an electronic control throttle (18), and adjusts the torque of the engine (1) so that the computed inertia torque is eliminated.

**FIG. 4****EP 1 177 933 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 01 11 8359

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 4 297 918 A (PERRY FORBES G DEB) 3 November 1981 (1981-11-03) * abstract; figure 1 *	1	B60K41/14 F16H37/08
A	US 6 027 425 A (YAMAMOTO KAZUHISA ET AL) 22 February 2000 (2000-02-22) * abstract; figures 1-3 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B60K F16H
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 4 March 2002	Examiner Kyriakides, L
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03 82 (P04001)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 11 8359

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-03-2002

Patent document cited in search report		Publication date		Patent family member(s)		Publication date	
US 4297918	A	03-11-1981	DE GB	2925268 A1 2023753 A ,B		10-01-1980 03-01-1980	
-----							
US 6027425	A	22-02-2000	JP	11198686 A		27-07-1999	
-----							

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82